

APPLICANT(S): IDAN, Gavriel J. et al.  
SERIAL NO.: 10/519,918  
FILED: January 3, 2005  
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### AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

- 1-11. (Cancelled)
12. (Currently amended) The ~~system~~ device of claim ~~[[37]]~~ 39 comprising an illumination unit to produce illumination in proportion to a signal from the ~~sensor pressure gauge~~.
- 13-26. (Cancelled)
27. (Previously presented) The system of claim 37, further comprising:  
a receiving unit to receive pressure data from an in-vivo device; and  
a controller to analyze the pressure data and to determine a location of the in-vivo device based on said pressure data.
28. (Cancelled)
29. (Cancelled)
30. (Currently amended) The method of claim 38, further comprising:  
receiving pressure data from ~~an in-vivo~~ said swallowable imaging device;  
analyzing the pressure data; and  
determining a location of the ~~in-vivo~~ swallowable imaging device based on said pressure data.
- 31-36. (Cancelled)
37. (Currently Amended) A system for collecting and displaying in vivo data, the system comprising:  
an in vivo device according to claim 39 ~~including a pressure sensor and an imager;~~  
and  
a display to display in vivo pressure data provided by said ~~device~~ pressure sensor simultaneously with corresponding in-vivo images provided by the device.  
~~said imager.~~

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27. (Previously presented) The system of claim 37, further comprising:
  - a receiving unit to receive pressure data from an in-vivo device; and
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30. (Currently amended) The method of claim 38, further comprising:
  - receiving pressure data from ~~an in-vivo~~ said swallowable imaging device;
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  - determining a location of the ~~in-vivo~~ swallowable imaging device based on said pressure data.
- 31-36. (Cancelled)
37. (Currently Amended) A system for collecting and displaying in vivo data, the system comprising:
  - an in vivo device according to claim 39 ~~including a pressure sensor and an imager;~~
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~~said imager.~~

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38. (Currently Amended) A method for collecting and displaying in-vivo data from a GI tract, the method comprising:
- measuring in-vivo in the GI tract hydrostatic pressure in a pliant sleeve filled with fluid, said sleeve surrounded by a shell of a swallowable imaging device data by an in-vivo device;
  - collecting image data by said in-vivo swallowable imaging device to produce an image of the GI tract; and
  - simultaneously displaying said in-vivo pressure data and said image.
39. (New) A swallowable imaging device for collecting in vivo images and in vivo pressure data, said device comprising:
- a housing including an optical dome, a shell, and a pliant sleeve surrounding said shell, said pliant sleeve defining a space between the shell and the pliant sleeve, said space being filled with a fluid;
  - an imaging system enclosed in said housing behind said optical dome; and
  - a pressure gauge in contact with the fluid in said space between the shell and the pliant sleeve.
40. (New) The device of claim 39 further comprising a transmitter to transmit in vivo pressure data.
41. (New) The device according to claim 39 wherein the fluid is a liquid.
42. (New) The device according to claim 39 wherein the imaging system comprises an imager, illumination elements to illuminate an in vivo area and an optical element to focus reflected light onto the imager.
43. (New) The device according to claim 42 wherein the optical dome is a barrier to body fluids.
44. (New) The device according to claim 41 wherein said liquid is dielectric liquid.
45. (New) The device according to claim 44 wherein said pressure gauge is immersed in said dielectric liquid.
45. (New) The device according to claim 44 wherein at least one element of said device is immersed in said dielectric liquid.
46. (New) The device according to claim 39 wherein said pressure gauge is attached to said shell.

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47. (New) The device according to claim 39 wherein said pressure gauge is attached to said pliant sleeve.